

FlexxRay

By Oxxius

Gamme	CW & Modulated Lasers
Title	FlexxRay 607 nm
Reference	LPX-607L
Description	<p>The FlexxRay LBX-607 is a compact 607nm laser source delivering one of the highest power available on the market over a beam of superior quality, and featuring an analogue modulation function. Its integrated control electronics and robust design suit both laboratory and industrial use.</p> <p>Performance, stability, and versatility make it a trusted solution for STED microscopy, optogenetics and fluorescence imaging.</p> <p>Key features</p> <ul style="list-style-type: none">• TEM₀₀ spatial mode• ±1.0% long-term power stability• Modulation up to 1.5 kHz• Integrated control electronics <p>Fully compatible with Oxxius MixxWave combiners for single-mode fiber delivery alongside other laser lines.</p>



Product Variations

Part Number	Puissance
LPX-607L-100-CSB-PPA	100mW
LPX-607L-200-CSB-PPA	200mW

Optical Characteristics

Emission wavelength	607 nm
Tolerance	(±1nm tolerance)

Control modes	Automated power control
Optical noise	$\leq 2.0\%$ rms, 10Hz-100kHz bandwidth
Spectral linewidth	$\leq 0.5\text{nm}$
Digital modulation function - Rise / fall time	$\leq 20\mu\text{s}$
Digital modulation function - Bandwidth	$\geq 1.5\text{kHz}$
Analog modulation function - Rise / fall time	$\leq 20\mu\text{s}$
Analog modulation function - Bandwidth	$\geq 1.5\text{kHz}$
Beam diameter, 1/e² level, 50mm from the beam aperture	$0.7 \pm 0.1\text{mm}$
Beam divergence, 1/e² level full beam, far field	$\leq 1.6\text{mrad}$
Beam quality factor M²	≤ 1.1
Beam circularity, far field	$\geq 90\%$
Polarization state	Linear, vertical, extinction ratio $\geq 20\text{dB}$

General Specifications

Power consumption	20 W max.
Supply voltage	5V to 12V
Operating temperature	10°C to 50°C
Storage temperature and humidity	0°C to 60°C
Warm up time	≤ 5 minutes
Interfaces	USB, RS-232, direct modulation inputs
Dimensions (laser head)	120x40x32 mm
Weight (laser head)	250 g
Controller dimensions	106x126x56 mm
Compliance	CE (incl. IEC 60825-1) and FDA 21 CFR 1040.10 / 1040.11
Laser class	3B
Warranty	24 months or 10000 hours, whichever occurs first

Options

Option 1	Single-mode fiber coupling
Option 2	Multimode fiber coupling
Option 3	Heat management
Option 4	High rate modulation
Option 5	Optical Isolator

Option 6	OEM version
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